

Dorfman, A. Sh., Pol'skii, N. I.,  
and Saikovskii, M. I.

A CHARACTERISTIC OF LOCAL EXPANSION OF  
DIFFUSOR CHANNELS (Ob Odnoi Kharakteristike  
Lokal'nogo Rasshireniya Diffuzornykh Kanalov).  
[1962] [19]p. (foreign text included) 2 refs.  
Order from OTS or SLA \$1.60

62-20260

62-20260

- I. Dorfman, A. Sh.
- II. Pol'skii, N. I.
- III. Saikovskii, M. I.

Trans. of Inzhenerno-Fizicheskii Zhurnal (USSR)  
1959, v. 2, no. 4, p. 8-14.

DESCRIPTORS: \*Diffusers, Exhaust diffusers, \*Tur-  
bine parts, Gas turbines, Thermal expansion, De-  
sign, Geometry.

The paper introduces a certain geometric character-  
istic of local expansion in curvilinear diffusors, as  
applied to the study of radial ring diffusors of the ex-  
haust pipes of turbines. (Author)  
(Machinery--Engines, TT, v. 9, no. 9)

Office of Technical Services

The Mechanism of Operation of Gas Diffusion  
Electrodes (Applied to a Hydrogen-Oxygen Fuel  
Cell Element), by I. G. Gurevich.

RUSSIAN, per, Inzh Fiz Zhur, No 4, 1959,  
pp 78-86.

NLL M. 4779

Sci - Engr, Electron

207, 193

Jul 62

Determination of Sodium Vapor Radiance at Temperatures 680 to 1300°C, by P. L. Kirillov, N. S. Grachev, UNCLASSIFIED

RUSSIAN, per, Inzhenerno-Fizicheskiy zhurnal,  
Vol II, No 5, 1959, pp 3-7. 967677

Navy 2597/MRL 805

Sci - Physics  
Aug 60

NLL RTS 1633 123/27

Crystalline Fracture as a Criterion of the  
Brittleness of Steel, by P. M. Dotskov.  
RUSSIAN, per, Inzhenerno-Fizicheski Zhurnal,  
Akad Nauk Beloruss SSR, Vol 2, No 5, 1959,  
pp 28-35.  
(TMS 1344)  
ACSIIL ADM/63/347

314, 358

Sci - Mechanical, Industrial,

Mycalline Fracture as a Criterion of Brittleness of Steels, by P. M. Dontsov, 8 pp.

RUSSIAN, per, Inzheinerne Fiz. Zhur. Ak Nauk Belorus  
SSR, Vol II, No 5, 1959, pp 28-35.

NLL/LC(AN)Ref:  
0572.7 1962(1265) 422-3002  
UKAEA  
Risley, DEG Inf Ser-107  
OTS 62-25423  
Anal - Phys  
Max 62  
Hist 63  
ACSIC on 1365  
(9215993) 18<sup>3</sup>, 94/  
OT 7345

Liquid-Vapor Equilibrium in the Helium  
Methan System, by F. F. Kharakhorin,  
5 pp.

RUSSIAN, per, Inzhenero-Fiz Zhur,  
Vol II, No 5, 1959, pp 55-59.

Sci  
Vol IV, No 2  
Mar 62

ATS-17M39R  
S4A 60-1873-8  
AT5/AT-2423  
188, 882

On the Specific Heat  $C_p$  of Water and Steam at  
Supercritical Pressures, by A. K. Sheindlin, et al.

RUSSIAN, per, Inzh Fiz Zhur, Vol II, No 7, 1959,  
pp 75-79.

NLL RPS 2055

Sci - Phys

Nov 62

217527

<p>Blinov, V. I. THE PROBLEM OF DIFFUSION FLAME VIBRATION (K Voprosu o Pul'satsiyakh Diffuzionnykh Plamen). [1960] 8p. 9 refs. Order from LC or SLA m\$1.80, ph\$1.80 61-15091  Trans. of Inzhenerno-Fizicheskiy Zhurnal (USSR) 1959, v. 2, no. 8, p. 15-22.</p> <p>Observations are described of the behavior of diffusion flames of liquids (solar oil, kerosene, benzine) burning in burners. The causes of the vibration of these flames, and a number of regularities observed in practice are explained. The results agree with Ya. B. Zel'dovich's theory of transition from laminar to turbulent behavior in a freely ascending jet which rises from the flame. (Author)</p> <p>(Chemistry--Physical, TT, v. 5, no. 3)</p>	<p>61-15091</p> <p>I. Flames--Diffusion I. Blinov, V. I. II. Research Servicing Associates, Washington, D. C. III. Bureau of Mines, Washington, D. C.</p> <p>142,994</p> <p>2 Sept 1961 TNT E57 No 345</p> <p>Office of Technical Services</p>
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Crystalline Fracture as a Criterion of the  
Brittleness of Steel, by P.M. Dontsov.  
RUSSIAN, per, Inzh.-Fiz. Zh. Vol. 2, No. 5, 1959,  
pp 28-35  
NLL0578.9 1963 (1365)

Sci -  
Aug 67

334-732

in the Presence of a Magnetic Field, by  
S. A. Regirer.  
RUSSIAN, per, Inzhenerno-Fizicheskii Zhurnal,  
Vol 2, No 8, 1959, pp 43-50. P911051967  
AEC BNL-tr-107

Sci/Physics  
Mar 67

318,599

An Adiabatic-Isothermal Nozzle, by V. N. Stepanovskii,  
10 pp.

RUSSIAN, pcc, Zarubezhnoe Fiz Zhur, Vol III, No 3,  
1959, pp 66-71. 9097683

Rand Corp RM-2930

Sci - R Phys  
Feb 62

196, 763

The Liquid-Vapor Equilibrium in an Ethane-Ethylene System, by F. F. Kharakhorin.  
RUSSIAN, per, Inzhenerno-Fiz Zhurnal,  
Vol 2, No 8, 1959, pp 72-77.  
NTC 69-10897-07D

Sci-Chem  
May 69

382,531

Kovner, M. A.  
CALCULATION OF THERMODYNAMIC FUNCTIONS  
OF BENZENE AND BENZENE-D<sub>6</sub> AND TOLUENE AND  
TOLUENE-D<sub>8</sub> FROM SPECTROSCOPIC DATA. [1961]

[6]p. 16 refs.

Order from OTS or SLA \$1.10

61-27988

Transl. of Inzhenerno-Fizicheskiy Zhurnal (USSR) 1959,  
v. 2, no. 8, p. 108-111.

DESCRIPTORS: \*Benzene, \*Toluenes, Thermodynamics  
Spectrographic data, \*Deuterated compounds.

61-27988

I. Kovner, M. A.  
II. Translations, New York

100-377

Office of Technical Services

(Physics--Thermodynamics, TT, v. 6, no. 10)

Effect of Imprecisions in the Making of a Symmetrical  
Gyroscope on its Motion, by N. I. Kuznetsov,  
M. P. Khalimanovich, 6 pp.

RUSSIAN, per, Inzhenerno-Fizich Zhur, No 8, 1959, ~~XXXXX~~  
pp 112-115. 9666842

FID-TR-62-~~XXX~~ 1158

Sci - Phys  
Nov 62

216, 888

Investigation of Heat Exchange in Boiling  
Homogeneous Reactor, by Ya. Malak, I. Schmid,  
16 pp.

RUSSIAN, per, Inzhener-Fiz Zhur, Akad Nauk Belorus  
SSR, Vol II, No 9, 1959, pp 12-23.

AEC Tr-4048

Sci - Phys  
Aug 60

124,032

<p>Kharakhorin, F. F. LIQUID-VAPOR EQUILIBRIUM IN THE SYSTEMS NITROGEN-HELUM AND HELUM-METHANE. [1961] 8p. 12 refs. Order from OTS or SLA \$1. 10</p> <p>Trans. of Inzhenerno-Fizicheskiy Zhurnal (USSR) 1959, [v. 2] no. 9, p. 24-29.</p> <p>DESCRIPTORS: *Nitrogen, *Helium, *Methane, Thermodynamics, *Liquids, *Gases, Solubility.</p> <p>The volatility of helium in nitrogen-helium and helium-methane systems in the temperature interval from 68 to 150.3 K and at pressures of from 4 to 215 atm is calculated from data obtained in an experimental investigation of liquid-vapour equilibrium in these mixtures. It is shown that at pressures between 40 to 45 and 215 atm the solubility of helium in liquid nitrogen and methane can be calculated with sufficient accuracy from the Krachevsky-Kazarnovsky equation. The (Chemistry-Physical, TT, v. 6, no. 5) (over)</p>	<p>61-10727 I. Kharakhorin, F. F.  180424  Office of Technical Services</p>
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3-412/40

(RU-177C).

The Distribution of a Heavy Polydispersed Aerosol  
in a Turbulent Atmosphere at a Long Distance from  
an Instantaneous Point Source, by I. L. Karpel',  
A. Ya. Fersman, 12 pp.

RUSSTAK, per, Inzhenerno-Fiz Zhar. Vol. 11, No. 2,  
Minsk, 1959, pp 83-91.

JPRS 2473

Sci - Geophys  
May 60

116, 683

The Mechanism of the Action of an Oxygen Jet on the ~~Kin~~  
Liquid Bath, by E. M. Osgryzkin.  
RUSSIAN, per, Inzhenerno Fiz Zhur, ~~M~~ Vol II, Sep 1959,  
pp 97~100.  
BISI 3939

Sci-Phys  
Feb 65

274,544

RECORDED IN CONFIDENTIAL SOURCE INFORMATION  
BY [REDACTED] ON 12/13/01

KRASILAK, JOHN. AMERICAN-EGYPTIAN BUSINESSMAN. LIVES IN NEW YORK CITY. WORKS FOR AMERICAN-EGYPTIAN TRADING CO., INC. ADDRESS UNKNOWN.

JRC:PC/CH/SP

ALL INFORMATION CONTAINED  
HEREIN IS UNCLASSIFIED  
DATE 6/16/02 BY SP/CH/JRC

An Investigation of the Heat Exchange Which Takes Place When Water and Ethyl Alcohol are Boiled in Tubes, by L. S. Sterman, et al.

RUSSIAN, per, Inzhenernno Fiz Zhur, Vol II,  
No 10, 1959, pp 40-45. 9093612

ALL M 3456  
Technical Information and Lib  
Services, Ministry of Aviation  
T-1440

171, 4P600

Sci & Phys  
Oct 61

AEC UCRL Tr-694

Heat Transfer Into a Single Pipe in the Transverse  
Current of a Liquid With Low Prandtl Number, by  
A. A. Andreyevskiy, 11 pp.

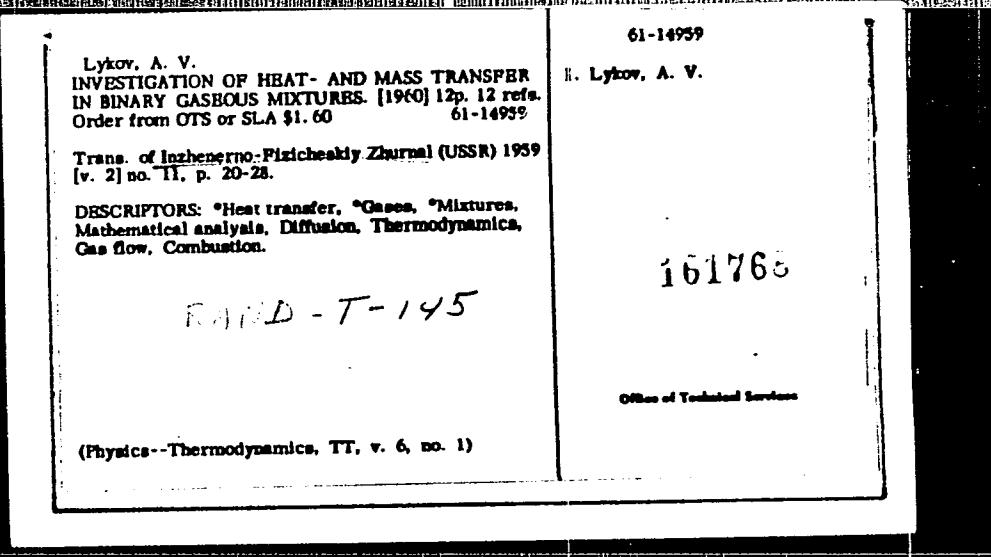
RUSSIAN, per, Inzherno Fiz Zhur, No 10, 1959, pp 46-51.  
9660215

AT&C MCL 753

Sci

Mar 61

144, 654



<p>Gamayunov, N. I. NEW METHOD FOR DETERMINATION OF THE HEAT AND MASS EXCHANGE COEFFICIENTS. [1961] 9p. 11 refs. Order from OTS or SLA \$1.10</p> <p>Trans. of Inzhenerno-Fizicheskiy Zhurnal (USSR) 1959. v. 2, no. 11, p. 35-42.</p> <p>DESCRIPTORS: *Heat transfer, Moisture, Conductivity, Mathematical analysis, Temperature, Water, Liquids, Fluid flow, Determination, *Thermodynamics</p> <p>A nonstationary method is presented for determining the coefficients of heat and moisture conductivity of moisture dispersion materials by means of a heat or water cylinder probe, thermister and tensiometer. Exact and approximate solutions of differential equations of heat and moisture transfer are given. By using data obtained from the approximate solutions and cor- (Physics--Thermodynamics, TT, v. 6, no. 8) (over)</p>	<p>61-14964</p> <p>I. Gamayunov, N. I.</p> <p>105083</p> <p>Office of Technical Services</p>
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The Analytical Application of Atomic Absorption  
Spectra, by B. V. Lvov.

RUSSIAN, per, Inz. Fiz. Zhur. Vol XI, No 11,  
1959, pp 56-62.

Sci-  
Apr 60

ABC Englewood Lts. Standard  
1FZ-59(11)11.56

Heat Transfer in Transition Flow of Liquid Metals  
in Tubes, by V. M. Deryugin and O. S. Fedynskiy  
14 pp.

RUSSIAN, per, Inzhenerno-Fizicheskiy Zhurnal,  
Vol 2, No 12, 1959, pp. 3-10. 9686814

FTD-TT-61-546

Sci - Phys

Sept 63

Heat Transfer to Liquid Metals in Turbulent Flow  
When the Thermal Load is Distributed Sinusoidally  
Along the Length of the Pipe, by V. I. Petrovichev,  
L. S. Kokorev, 9 pp.

RUSSIAN, per, Inz-Fiz Zhur, Vol II, No 12, 1959,  
pp 20-25.

Sci - Phys  
19 Oct 60

AEC Tr-4218  
FTS 10-1-54  
(967674)  
129,798

Thermal Calculation of the Operating Channel of a  
Nuclear Reactor, by I.S. Kochenov.

RUSSIAN, per, Inzhenerno-Fiz Zhur, Vol II, No 12, 1959,  
pp 64-67. 9661851

ATIC MCL 768/1

155,538

Sci - Phys  
Jun 61

(DC-3631)

S-253/60

Simplified Method of Thermal Calculation for a  
Reactor Using Pressurized Water, by L. N. Muchnik,  
6 pp.

RUSSIAN, per, Inzhnerno-Fiz Zhur, Vol II, No 12,  
1959, Minsk, pp 105-109.

JPRS 3590

Sci - Nuclear Phys

Jul 60

121,497

On Optimum Photoregistration Angle in Measure-  
ment of Rate of Combustion, by N. N. Bakhman;  
3 pp.

RUSSIAN, per, Inzhenerno-Fiz Zhur, Vol III,  
No 1, 1960.

ACSI H-9896  
ID 2174782

170. 474

Sci - Phys

11 Oct 61

Universal Electronic Calorimeter, by Ye. V.  
Kudryavtsev, K. N. Chakalev, 9 pp.

RUSSIAN, per, Inzhenerno Fiz Zhur, Vol III, No 1,  
1960, pp 3-9. 9038294

AEC Tr-4934

Sci - Engr  
Apr 62

189, 964

Certain Problems Related to the Strength of Silicone  
Carbide Base Ceramet Materials, by V.T. Troshchenko.

RUSSIAN, per, Inzh Fiz Zhur, No 1, 1960, pp 103-107.  
CIA 9660846.

1/11 10-40-5-1  
**ATIC MCL 640**

UKA E A

Ricden, DEG Conf L-1  
9097614 176(CA)

152,577

Sci - Min/Met; Chem

May 60  
T60-17104 Ref DC-12

(NY-6880)

BOOK REVIEW OF SEMICONDUCTOR THERMISTORS,  
BY I. F. VOLOSHIN, A. S. KASPEROVICH,  
A. G. SHASHKOV, BY B. S. SOTSKOV, 6 PP.

RUSSIAN, PER, INZH-FIZ ZHUR, VOL III,  
NO 1, 1960, PP 124-126.

JPRS 12510

SCI - ENGR  
MAR 62

183,,182

Methodology for Experimental Studies of the  
Overall Kinetics of the Combustion of Gases, by  
Z. S. Leont'yeva,

RUSSIAN, per, Inzhenerno-Fiz Zhur, Vol III, No 2,  
1960, pp 12-16.

JHU/APL

available at---ERDL, Ft Belvoir  
T-1386

Sci - Phys  
Aug 61

163518

FEB 19 1961 10:30  
FEB 19 1961 10:30

Rips, S. M. A THERMODYNAMIC INVESTIGATION OF THE PROCESS OF GASIFICATION OF LIQUID OXYGEN (Termodinamicheskoe Issledovanie Protsessa Gazifi- katsii Zhidkogo Kisloroda). [1962] [17]p. (foreign text included) 1 ref. Order from OTS or SLA \$1.60	62-14002	I. Rips, S. M.
Trans. of Inzhenerno-Fizicheskii Zhurnal (USSR) 1960 [v. 3] no. 2, p. 41-45.	62-14002	
DESCRIPTORS: Thermodynamics, *Liquefied gases, *Oxygen, Equations of state.		Office of Technical Services

The Sintering of Iron With Cyclic Change of  
Temperature in a ~~HIGH~~ Critical Range, by  
R.A. Andriyevskiy, et al.

RUSSIAN, per, Izob. Fiz. Zhur., Vol III, No 2, 1960  
pp 71-73. CIA 9660739.

ATIC MCL 675

Sci - Phys SLA 61-19706

May 61

152,576

Nomograms for the Determination of the  
Optical Constants of Absorbing Substances  
by Avery's Method, by A. P. Prishivalko.

RUSSIAN, per, Inzhenerno-Fizicheskiy Zhur.,  
Vol III, No 2, 1960, pp 83-85.

Dept of Interior  
QB3 E57 No 71

191, 494

Sci - Geophys

Apr 62

Causes of Dielectric Losses in Transformer Oil  
at a Frequency of 50 c/s, by R. A. Lipstein &  
E. H. Stern.  
RUSSIAN, per, Inzh fiz zh, Vol 2, 1960, pp 101-104.  
NLL Ref: 5828.4F (12239)

Sci/Elec & Elec Engr  
Feb 68                    349,594

<p>Bondareva, A. K. and Todes, O. M. HEAT CONDUCTION AND HEAT EXCHANGE IN A FLUIDIZED BED (Teploprovodnost' i Teploobmen v Kipyashchem Sloe) tr. by M. Slade. [1961] [14]p. (foreign text included) 8 refs. [CSIRO] Trans. no. 5507. Order from OTS or SLA \$1.60 62-13608  Trans. of Inzhenerno-Fizicheskii Zhurnal (USSR) 1960, v. 3, no. 2, p. 105-110.</p> <p>DESCRIPTORS: *Fluidized solids, *Heat transfer, Thermal conductivity, Liquids, Turbulent flow, Parti- cles, Motion.</p> <p>Visual observations and direct and indirect determi- nations of the particle velocities show that the move- ment of the particles in a fluidized bed is analogous to the movement in a highly turbulent liquid.</p> <p>( Physics--Thermodynamics, TTT, v. 7, no. 10)</p>	<p>62-13608</p> <p>I. Bondareva, A. K. II. Todes, O. M. III. CSIRO Trans-5507 IV. Commonwealth Scientific and Industrial Research Organization (Australia)</p> <p>Office of Technical Services</p>
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The Problem of Heat Exchange in a Fluidized Bed, by S. Zabrodskiy.

RUSSIAN, per, Inzhenerno-Fiz Zhur,  
Vol III, No 2, 1960, pp 111-114.

CSIRO 5582

OTIS 62-2377

Sci - Phys  
Aug 62

207,346

(DC-3625).

The Application of Powerful Sources of Radiation  
in Industry, by G. I. Grifafov, V. I. Sinitsyn, 6 pp.  
RUSSIAN, per, Inzhenerno-Fiz Zhur, Vol ~~4~~ III, No 2,  
Minsk, 1960, pp 128-132.

JPRS 3339

Sci - Chem, Chemical Industry  
Jun 60

117,538

High-Temperature Reduction of Carbon Dioxide  
by Carbon, by E. S. Golovina and  
G. P. Mhaustovich,  
RUSNIAK, per, Inzhereno-Fizicheskiy Zhurnal,  
Vol III, No 3, 1960, pp 13-20.  
NLL RTS 2990  
(On Loan or Purchase)

Sci-Chem  
Apr 67

324,445

Calculation of the Optical Properties of  
a Stack of Plane-parallel Layers,  
by A. P. Khapalyuk.  
RUSSIAN, per, Inzhen Fiz Zhur, Vol III, No 3,  
1960, pp 59-68.  
Dept of Navy Tr 4343/APL No T-1493

Sci - Eng  
Nov 65

292,773

<p>Keneman, F. Ya., Zalogin, N. G. and others. THE MECHANISM OF THE FREE FLOW OF GRANULAR MATERIALS, 1 (I. O Mekhanizme Svobodnogo Istecheniya Sypuchikh Tel). Jan 61 [7]p. 21 refs. RTS 1652. Order from LC or SLA mi\$1.80. ph\$1.80 61-15713  Trans. of Inzhenerno-Fizicheskiy Zhurnal (USSR) 1960, v. 3, no. 3, p. 69-73.</p> <p>The unrestricted passage of free flowing materials through orifices is investigated. It is established that the flow-rate is determined by the ability of a "dynamic arch" to be formed over the orifice and does not depend either on the height of the column of the free flowing material over the orifice (if it exceeds the diameter of the orifice), or on the character and velocity of the movement of the particles outside the limits of the dynamic arch zone which extends over the orifice by a height approximating to the width of the diameter. (Authors) (Mechanics, TT, v. 3, no. 9)</p>	<p>61-15713</p> <p>I. Particles--Mechanical properties I. Keneman, F. Ya. II. Zalogin, N. G. III. RTS-1652 IV. Department of Scientific and Industrial Research (Gr. Brit.)</p> <p>151970</p> <p>Office of Technical Services</p>
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ON TURBULENT DIFFUSION IN PIPES, BY  
V. S. YABLONSKIY, ET AL.

RUSSIAN, PER, INZHENERO, FIZ ZHUR, VOL III,  
NO 3, 1960, PP 117-122

NLL M.4627

OTL 162-1570

SCI - PHYS

JUN 62

199,091

(SF-2155)

Fedor ~~Vinokurov~~ Petrovich Vinokurov, 4 pp.

RUSSIAN, per, Inzherno-Fiz Zhur, No 3,  
1960, pp 155-158.

JPRS 13435

USSR  
Biog  
Apr 62

<p>Zalogin, N. G., Keneman, R. Ye., and Vorob'yev, V. N. REGARDING THE MECHANISM OF FREE FLOW OF NON-AGGLOMERATING SOLIDS. Feb 61 [7]. 7 refs. RTS 1653. Order from LC or SLA m\$1.80, ph\$1.80 61-15923  Trans. of <u>Izhevenergo-Fizicheskiy Zhurnal</u> (USSR) 1960, v. 3, no. 4, p. 18-22.</p> <p>As a result of investigations into the relationship between the rate of flow of solid particles out of funnels and the angle of inclination of funnel walls to the horizontal, it was found that only the inclination of the part of the wall close to the outlet orifice affects the rate of flow. It was established that the flow from a funnel becomes greater than that from a flat-bottomed bin when the inclination of the funnel wall exceeds 35-60°. The walls of a cylindrical bin influence the rate of flow if their distance from the edge of orifice is less than the diameter of the orifice. (Authors) (See also 61-15713)</p>	<p>61-15923</p> <p>1. Particles--Mechanical properties I. Zalogin, N. G. II. Keneman, R. Ye. III. Vorob'yev, V. N. IV. RTS-1653 V. Department of Scientific and Industrial Research (Gt. Brit.)</p> <p>151990</p> <p>Office of Technical Services (Mechanics, TT, v. 3, no. 7)</p>
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<p>Toporov, Yu. P. ON THE QUESTION OF THE INFLUENCE EXERTED BY HUMIDITY ON THE EXTERNAL FRICTION OF SOLIDS (K Voprosu o Vliyanii Vlazhnosti na Vneahnye Treniye Tverdykh Tel). Jan 61 [9p]. 19 refs. RTS 1654. Order from LC or SLA m\$1.80, ph\$1.80 61-15397 <u>Trans. of Inzhenerno-Fizicheskiy Zhurnal (USSR)</u> 1960, v. 3, no. 4, p. 44-48.</p> <p>A description is given of the technique and the results of an investigation into the influence exerted by the humidity of the surrounding atmosphere on external static friction when there is a layer of highly disperse substances between the contact surfaces. (Author)</p> <p>(Mechanics, TT, v. 5, no. 7)</p>	<p>61-15397</p> <p>1. Solids--Surface properties 2. Solids--Moisture factors 3. Friction--Moisture factors I. Toporov, Yu. P. II. RTS-1654 III. Department of Scientific and Industrial Research (Gt. Brit.)</p> <p>148,75)</p> <p>OFFICE OF TECHNICAL SERVICES</p>	
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(NY-5938)

Semiempirical Theory of Vertical Turbulent  
Diffusion in the Boundary Layer of the  
Atmosphere, by I. L. Karol', 24 pp.

RUSSIAN, per, Inzh-Fiz Zhur, Vol III, No 4, 1960,  
pp 54-64.

JPRS 9035

Sci - Geophys

150,985

May 61

THE APPLICATION OF THE LAPLACE TRANSFORM  
TO SOME HYDRODYNAMIC PROBLEMS, BY  
R. A. VOLKOV.

RUSSIAN, PER, INZHENERO FIZ ZHUR, VOL III,  
NO 4, 1960, PP 65-72.

NLL M.4631

SCI - PHYS

CT 3 62-L-705

JUN  
8N 62  
X

199,090

Heat Exchange by Radiation Between Two Parallel X  
Infinite Cylinders, by V. Y. Frenkel.

RUSSIAN, per, Inz Fiz Zhur, Vol III, No 4, 1960,  
pp 85-89.

UKAEA-Risley-Tr-~~18~~ 544

Sci  
Dec 63

Alimov, R. Z.

HEAT AND MASS EXCHANGE WITH COOLING OF  
STRONGLY HEATED SURFACES BY EVAPORATION  
(Teplo-i Massobmen pri Okhlazhdeani Sil'no Nagre-  
vayemykh Poverkhnostei is Pareniem) tr. by Joy B.  
Gazley, Nov 62 [21]p. 16 refs. Rand Memo.  
RM-2997-PR.

Order from OTS or SLA \$2.60

63-13622

Trans. of Inzhenerno-Fizicheskii Zhurnal (USSR) 1960,  
v. 3, no. 5, p. 31-39.

DESCRIPTORS: \*Heat transfer, \*Mass transfer, Sur-  
faces, Cooling, Evaporation, Thermal conductivity,  
Thermal diffusion, \*Fluid flow, Fluid dynamics.

In this article criterial equations of heat and mass  
transfer are deduced, which take into account the inter-  
effect of the flows of heat and steam across the bound-  
(Mechanics--Aerodynamics, TI, v. 9, no. 6) (over)

63-13622

- I. Alimov, R. Z.
- II. Rand RM-2997-PR
- III. Rand Corp., Santa Monica,  
Calif.
- IV. Contract AF 49(638)700

RAND 1962-2997-PR  
(AF 49-31716)

Office of Technical Services

Heat Exchange With a Flow of a Rarefied Gas Along  
a Wall,

RUSSIAN, per, Inzh-Fiz Zhur, Vol III, No 5,  
1960, pp 4-11.

Rand Corporation  
RAND RM-3016-PR

Sci - Phys

Oct 62

C. I. C. 13-13-1

212,286

Experimental Investigation of the Effectiveness  
of Ribbing of Streamlined Form for CTU Generators,  
by A. I. Risovich, 10 pp.

RUSSIAN, per, Inzbenerno-Fiz Zhur, Vol III,  
No 5, 1960, pp 24-30. 9670180

PTD  
~~AMC~~ MCL-908/1

Sci - Engr

Jul 61

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